VOLUME 28—1999
Author Index

A

ABRAHAMSSON, T. AND L. LUNDQVIST. *Formulation and Estimation of Combined Network Equilibrium Models with Applications to Stockholm,* 80–100

ARDEKANI, SIAMAK A. *Abstracts for the 1998 Transportation Science Section Dissertation Prize Competition,* 124–131

B

BALDACCI, ROBERTO, *see* MINGOZZI, GIORGI, AND BALDACCI, 315–329

BARNHART, CYNTHIA, *see* KIM, BARNHART, WARE, AND REINHARDT, 391–407

BELOBABA, PETER P. AND ANDRAS FARKAS. *Yield Management Impacts on Airline Spill Estimation,* 217–232

BENAVENT, ENRIQUE AND DAVID SOLER. *The Directed Rural Postman Problem with Turn Penalties,* 408–418

C

CHATWIN, RICHARD E. *Continuous-Time Airline Overbooking with Time-Dependent Fares and Refunds,* 182–191

CHIOU, SUH-WEN. *Human Judgment and Analytical Derivation of Ride Quality,* 279–289

CHRISTIANSEN, MARIELLE. *Decomposition of a Combined Inventory and Time Constrained Ship Routing Problem,* 3–16

CIANCIMINO, A., G. INZERILLO, S. LUCIDI, AND L. PALAGI. *A Mathematical Programming Approach for the Solution of the Railway Yield Management Problem,* 168–181

D

DESROSIERS, JACQUES, *see* KOHL, DESROSIERS, MADSEN, SOLOMON, AND SOUMIS, 101–116

DOULIGERIS, CHRISTIOS, *see* IAKOVOU, DOULIGERIS, LI, IP, AND YUDHBIR, 34-48

F

FARKAS, ANDRAS, *see* BELOBABA AND FARKAS, 217–232

FENLON, MARK. *Robert Herman: The Last Renaissance Man,* 260–263

FLORIAN, M, *see* XU, WU, FLORIAN, MARCOTTE, AND ZHU, 341–353

FUMERO, F., AND C. VERCELLIS. *Synchronized Development of Production, Inventory, and Distribution Schedules,* 330–340

G

GENDREAU, MICHEL, FRANÇOIS GUERTIN, JEAN-YVES POTVIN, AND ÉRIC TAILLARD. *Parallel Tabu Search for Real-Time Vehicle Routing and Dispatching,* 381–390

GIORGI, SIMONE, *see* MINGOZZI, GIORGI, AND BALDACCI, 315–329

GUE, KEVIN R. *The Effects of Trailer Scheduling on the Layout of Freight Terminals,* 419–428

GUERTIN, FRANÇOIS, *see* GENDREAU, GUERTIN, POTVIN, AND TAILLARD, 381–390

I

IAKOVOU, ELEFTHERIOS, CHRISTIOS DOULIGERIS, HUAN LI, CHI IP, AND LALIT YUDHBIR. *A Maritime Global Route Planning Model for Hazardous Materials Transportation,* 34–48

INZERILLO, G, *see* CIANCIMINO, INZERILLO, LUCIDI, AND PALAGI, 168–181

IP, CHI, *see* IAKOVOU, DOULIGERIS, LI, IP, AND YUDHBIR, 34–48

K

KIM, DAEKI, CYNTHIA BARNHART, KEITH WARE, AND GREGORY REINHARDT. *Multimodal Express Package Delivery: A Service Network Design Application,* 391–407

KIM, KAP HWAN AND KI YOUNG KIM. *An Optimal Routing Algorithm for a Transfer Crane in Port Container Terminals,* 17–33

KIM, KI YOUNG, *see* KIM AND KIM, 17–33

KOHL, KIKLAS, JACQUES DESROSIERS, OLI B. G. MADSEN, MARIUS M. SOLOMON, AND FRANÇOIS SOUMIS. *2-Path Cuts for the Vehicle Routing Problem with Time Windows,* 101–116

L

LAUTENBACHER, CONRAD J, *see* SUBRAMANIAN, STIDHAM, AND LAUTENBACHER, 147–167

LAUTENBACHER, CONRAD J. AND SHALER STIDHAM, JR. *The Underlying Markov Decision Process in the Single-Leg Airline Yield-Management Problem,* 136–146

LEE, YOUNG-KYUN, *see* MCCORD, LEE, AND LO, 49–67

LI, HUAN, *see* IAKOVOU, DOULIGERIS, LI, IP, AND YUDHBIR, 34–48

LIANG, YIGAO. *Solution to the Continuous Time Dynamic Yield Management Model,* 117–123

LO, HONG KAM, *see* MCCORD, LEE, AND LO, 49–67

LUCIDI, S, *see* CIANCIMINO, INZERILLO, LUCIDI, AND PALAGI, 168–181

LUNDQVIST, L, *see* ABRAHAMSSON AND LUNDQVIST, 80–100

M

MADSEN, OLI B. G, *see* KOHL, DESROSIERS, MADSEN, SOLOMON, AND SOUMIS, 101–116

MARCOTTE, P, *see* XU, WU, FLORIAN, MARCOTTE, AND ZHU, 341–353

MCCORD, MARK R., YOUNG-KYUN LEE, AND HONG KAM LO. *Ship Routing through Altimetry-Derived Ocean Currents,* 49–67

MCGILL, JEFFREY I. AND GARRETT J. VAN RYZIN. *Revenue Management: Research Overview and Prospects,* 233–256

MILOT, LUC, *see* SANSÒ AND MILOT, 68–79

MINGOZZI, ARISTIDE, SIMONE GIORGI, AND ROBERTO BALDACCI. *An Exact Method for the Vehicle Routing Problem with Backhauls,* 315–329

N

NELSON, PAUL AND BRYAN RANEY. *Objectives and Benchmarks for Kinetic Theories of Vehicular Traffic,* 290–314

Subject Index

A

Abstracts, 1998 Transportation Science Section Dissertation Prize Competition, 124–131
Accident information, performability of congested urban network, 68–79
Airlines
  airline spill estimation, yield management impacts, 217–232
  dynamic pricing in seat management, multiple flight legs, 192–206
  overbooking with time-dependent fares and refunds, 182–191
  single-leg airline, Markov decision process, 136–146
  yield-management with overbooking, cancellations, and no-shows, 147–167
Algorithms, optimal routing for transfer crane in port terminals, 17–33

B

Backhauls
  heavy traffic analysis of dynamic stochastic inventory-routing problem, 361–380
  vehicle routing problem with, 315–329

C

Continuous dynamic network loading problem, 341–353
Continuous time dynamic yield management model, 117–123

D

Decentralized feedback strategies for route guidance, 264–278
Decomposition of ship routing problem, 3–16
Directed rural postman problem with turn penalties, 408–418
Dissertation prizes
  competition abstracts, 1998 Transportation Science Section, 124–131
  IATBR Eric Pas prize, travel behavior research, 2

E

Equilibrium models
  area traffic control for equilibrium network flows, 279–289
  combined network equilibrium models with applications to Stockholm, 80–100
  system optimum, stochastic user equilibrium, and optimal link tolls, 354–360
Express package delivery, multimodal transportation, 391–407

F

Freight terminals
  layout, effects of trailer scheduling on, 419–428
  port transfer crane, optimal routing algorithm, 17–33

H

Hazardous materials transport, maritime global route planning model, 34–48
Heavy traffic analysis of dynamic stochastic inventory-routing problem, 361–380
Human judgment and analytical derivation of ride quality, 290–297

I

Inventory dynamic stochastic inventory-routing problem, 361–380
  ship routing problem, inventory and time constrained, 3–16
  synchronized production, inventory, and distribution schedules, 330–340

K

Kinetic theories of vehicular traffic, 298–314

M

Maritime transportation
  altimetry-derived ocean currents, ship routing, 49–67
  combined inventory and time constrained ship routing problem, 3–16
  foreword to focused issue, 1–2
  hazardous materials, maritime global route planning model, 34–48
  port transfer crane, optimal routing algorithm, 17–33
Markov decision process in single-leg airline yield-management problem, 136–146
Modeling
  combined network equilibrium models with applications to Stockholm, 80–100
  continuous time dynamic yield management model, 117–123
  hazardous materials transport, maritime global route planning model, 34–48
  network bid prices, randomized linear programming method, 207–216
  ocean currents, ship routing through altimetry-derived currents, 49–67
  railway yield management problem, mathematical programming for, 168–181
Multimodal transportation, express package delivery, 391–407

N

Network bid prices, randomized linear programming method, 207–216

O

Ocean currents, ship routing through altimetry-derived currents, 49–67

P

Parallel tabu search for real-time vehicle routing and dispatching, 381–390
Performability of congested urban transportation network, 68–79
Ports, transfer crane routing in port container terminals, 17–33
Pricing
  seats management for flights with multiple flight legs, 192–206
  system optimum, stochastic user equilibrium, and optimal link tolls, 354–360

Q

Queueing, heavy traffic analysis of dynamic stochastic inventory-routing problem, 361–380

R

Railways, yield management, mathematical programming approach, 168–181
Revenue management: research overview and prospects, 233–256
Ride quality, human judgment and analytical derivation, 290–297
Route guidance, simple decentralized feedback strategies, 264–278
Routing
  hazardous materials, maritime global route planning model, 34–48
  heavy traffic analysis of dynamic stochastic inventory-routing problem, 361–380
  parallel tabu search for real-time vehicle routing and dispatching, 381–390
  rural postman problem with turn penalties, 408–418
  ship routing through altimetry-derived ocean currents, 49–67
  ship routing, decomposition of combined inventory and time constrained problem, 3–16
  transfer crane in port container terminals, 17–33
  vehicle routing problem with backhauls, 315–329
  vehicle routing problem with time windows, 2-path cuts for, 101–116
Rural postman problem with turn penalties, 408–418

S

Scheduling
  freight, effects of trailer scheduling on terminal layout, 419–428
  synchronized production, inventory, and distribution schedules, 330–340
Seats management, dynamic pricing for flights with multiple flight legs, 192–206
Ship routing
  altimetry-derived ocean currents, 49–67
  combined inventory and time constrained problem, 3–16
  hazardous materials, maritime global route planning model, 34–48
Stockholm, combined network equilibrium models with applications to, 80–100

T

Time
  2-path cuts for vehicle routing problem with time windows, 101–116
  combined inventory and time constrained ship routing problem, 3–16
  continuous time dynamic yield management model, 117–123
  freight scheduling, effects on terminal layout, 419–428
  synchronized production, inventory, and distribution schedules, 330–340
Tolls
  system optimum, stochastic user equilibrium, and optimal link tolls, 354–360
Traffic theory
  area traffic control for equilibrium network flows, 279–289
  combined network equilibrium models, 80–100
  continuous dynamic network loading problem, 341–353
  foreword to focused issue, 257
  kinetic theories of vehicular traffic, 298–314
  ride quality, human judgment and analytical derivation, 290–297
  route guidance, simple decentralized feedback strategies, 264–278
Trains, yield management, mathematical programming approach, 168–181
Transportation Science Section, 1998 Dissertation Prize Competition, abstracts, 124–131
Travel behavior research, first IATBR Eric Pas dissertation prize, 2

U

Urban traffic
  area traffic control for equilibrium network flows, 279–289
  combined network equilibrium models, applications to Stockholm, 80–100
  performability of congested network, accident information available, 68–79

V

Vehicle routing
  2-path cuts for routing problem with time windows, 101–116
  backhauls, routing problem with, 315–329
  heavy traffic analysis of dynamic stochastic inventory-routing problem, 361–380
  real-time vehicle routing and dispatching, parallel tabu search, 381–390
Vehicular traffic, kinetic theories, 298–314

Y

Yield management
  airline spill estimation, 217–232
  bid prices, randomized linear programming method, 207–216
  continuous time dynamic yield management model, 117–123
  continuous-time overbooking with time-dependent fares and refunds, 182–191
  dynamic pricing in seat management, flights with multiple flight legs, 192–206
  foreword to focused issue, 135
  Markov decision process in single-leg airline problem, 136–146
  overbooking, cancellations, and no-shows, 147–167
  railway, mathematical programming approach for yield management, 168–181
  revenue management: research overview and prospects, 233–256